

WHAT IS CLAIMED IS:

1. A method of operating a base station subsystem, comprising the steps of:  
processing a call initiation request; and  
contemporaneously, allocating resources within the base station subsystem needed to  
5 grant network access to a Mobile Station.
2. A method of operating a base station subsystem, as set forth in claim 1, wherein the call  
initiation request is an origination request.
- 10 3. A method of operating a base station subsystem, as set forth in claim 1, wherein the call  
initiation request is a page response message.
4. A method of operating a base station subsystem, as set forth in claim 1, wherein the call  
initiation request is a reconnect message.
- 15 5. A method of operating a base station subsystem, as set forth in claim 1, wherein the  
resources are hardware resources.
6. A method of operating a base station subsystem, as set forth in claim 1, wherein the  
20 resources are software resources.
7. A method of operating a base station subsystem, as set forth in claim 1, wherein the  
method is performed in a routing agent.
- 25 8. A method of operating a base station subsystem, as set forth in claim 1, wherein the  
resources further comprise resource manager resources.
9. A method of operating a base station subsystem, as set forth in claim 1, wherein the  
resources include call processing resources.
- 30 10. A method of operating a base station subsystem, as set forth in claim 1, wherein the  
step of contemporaneously, allocating resources is performed during user authentication.
- 35 11. A method of operating a base station subsystem, as set forth in claim 1, wherein the  
step of processing the call initiation request is performed at a Base Transceiver Station.

12. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Base Station Controller.

5        13. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Call Processor.

14. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Resource Manager.

10        15. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Packet Control Function.

16. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Mobile Switching Center.

17. A method of operating a base station subsystem, comprising the steps of:  
allocating radio frequency resources; and  
contemporaneously, allocating packet session resources.

20        18. A method of operating a base station subsystem, as set forth in claim 17, wherein a routing agent initiates the step of allocating radio frequency resources.

19. A method of operating a base station subsystem, as set forth in claim 17, wherein a call processing agent initiates the step of allocating packet resources.

20. A method of operating a wireless network, comprising the steps of:  
establishing an A10 interface;  
allocating Packet Control Function resources for a packet data session in response to  
30 establishing the A10 interface; and  
connecting the PCF resources for the packet data session in response to allocating the PCF resources.

21. A method of operating a wireless network, as set forth in claim 20, wherein a PCF performs the step of allocating PCF resources.

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22. A method of operating a wireless network as set forth in claim 20, wherein the A10 interface is established between a PCF and a Packet Data Service Node (PDSN).

5       23. A method of operating a wireless network, comprising the steps of:  
establishing an A10 interface;  
performing a channel assignment process; and  
initiating a service connection request in response to establishing the A10 interface and in response to performing the channel assignment process.

10       24. A method of operating a wireless network, as set forth in claim 23, wherein the A10 interface is established between a Packet Control Function and a Packet Data Service Node.

15       25. A method of operating a wireless network, as set forth in claim 23, wherein the channel assignment process is performed between a call processor and a Mobile Station.

26. A method of operating a wireless network, as set forth in claim 23, wherein the service connection request is generated by a routing agent.